

$$\frac{P_1}{\rho} + \frac{u_1^2}{2} + gh_1 = \frac{P_2}{\rho} + \frac{u_2^2}{2} + gh_2$$

What pressure difference is necessary to make sure system remains flowing?

Here, $u_1 = u_2$

$$P_1-P_2=\Delta P=\rho g(h_2-h_1)$$

 $ho_{
m g}(h_2-h_1)$ is the same as the pressure you measure in cm ${
m H}_2{
m O}$

Fig. 22